

# Claims

- [c1] An electrical connector assembly for electrically connecting an electronic package with a circuit substrate, the electrical connector assembly comprising:  
an electrical connector with a plurality of conductive terminals received in a conductive region thereof and comprising a plurality of raised sidewalls, at least a pair of spring arms formed in two adjacent sidewalls, and at least a pair of through slots defined throughout the conductive region, corresponding to the spring arms; and  
a mounting base having at least a pair of guiding blocks provided thereon for mating with the spring arms of the connector.
- [c2] The electrical connector assembly as claimed in claim 1, wherein the mounting base comprises a pair of opposite raised "U"-shape sidewalls, and defines a pair of cutouts between opposing ends of the sidewalls.
- [c3] The electrical connector assembly as claimed in claim 2, wherein one guiding block is provided near one of the cutouts, and the other guiding block is provided near one of the sidewalls.

- [c4] The electrical connector assembly as claimed in claim 1, wherein the raised sidewalls of the connector cooperatively define a recess, and the conductive region is defined on the connector under the recess.
- [c5] The electrical connector assembly as claimed in claim 1, wherein each spring arm forms a retaining portion at a free distal end, the retaining portion comprising an inner vertical retaining surface, parallel to the corresponding sidewall, and a slantwise acting surface, below and adjoining the retaining surface.
- [c6] The electrical connector assembly as claimed in claim 5, wherein each guiding block passes through a corresponding through slot of the connector and comprises a slantwise guiding surface facing a periphery of the connector and engaging with the acting surface of a corresponding spring arm.
- [c7] The electrical connector assembly as claimed in claim 6, further comprising an auxiliary interbase attached with the mounting base.
- [c8] The electrical connector assembly as claimed in claim 7, wherein the auxiliary interbase defines a pair of through acting slots, corresponding to the guiding blocks of the mounting base.

- [c9] The electrical connector assembly as claimed in claim 8, wherein the auxiliary interbase defines a plurality of retaining holes in a bottom thereof.
- [c10] The electrical connector assembly as claimed in claim 9, wherein the mounting base further defines a plurality of receiving holes, corresponding to the retaining holes of the auxiliary interbase.
- [c11] The electrical connector assembly as claimed in claim 10, wherein each receiving hole receives an elastic member therein, and a top end of the elastic member is received in a corresponding retaining hole.
- [c12] The electrical connector assembly as claimed in claim 11, wherein each elastic member is a coil spring.
- [c13] A mounting system for use with an electrical connector to facilitate attaching of an electronic package on the connector, the mounting system comprising:  
a mounting base comprising at least a pair of guiding blocks;  
wherein each guiding block comprises a slantwise guiding surface facing a periphery of the connector.
- [c14] The mounting system as claimed in claim 13, wherein the mounting base further comprises a pair of opposite

raised "U"-shape sidewalls, and defines a pair of cutouts between opposing ends of the sidewalls.

- [c15] The mounting system as claimed in claim 14, wherein one guiding block is provided near one of the cutouts, and the other guiding block is provided near one of the sidewalls.
- [c16] The mounting system as claimed in claim 15, further comprising an auxiliary base attached with the mounting base.
- [c17] The mounting system as claimed in claim 16, wherein the auxiliary base comprises a pair of positioning arms received in the cutouts of the mounting base, and defines a pair of through acting slots corresponding to the guiding blocks of the mounting base.
- [c18] The mounting system as claimed in claim 17, wherein the auxiliary base further defines a plurality of retaining holes in a bottom thereof, and the mounting base further defines a plurality of receiving holes corresponding to the retaining holes of the auxiliary base.
- [c19] An electrical assembly comprising:  
an electrical connector including an insulative housing with a plurality of conductive terminals disposed therein, said housing defining an top face above which said ter-

minals extend upwardly;  
at least one spring arm located adjacent to said top face;  
an electronic package seated upon the top face and restrained by a force derived from said spring arm; and  
a mounting base detachably mounted under said housing under a condition that when said mounting base is substantially assembled with said connector, said spring arm is automatically forced, by said mounting base, to be deflected for removing said force from the electronic package so as to allow said electronic package to be installed or uninstalled relative to the housing in a zero force manner.

[c20] The assembly as claimed in claim 19, wherein said mounting base and said housing are assembled to each other in a vertical direction while said spring arm is deflected outwardly accordingly in a lateral direction perpendicular to said vertical direction.